

CAREER AND TECHNICAL EDUCATION GRADES 7-12

BT BUSINESS TECHNOLOGY EDUCATION	Abbreviation/Code		CTE	Endorsement/Employment Standards
eBusiness Communication	eBus	3704	BT	031, 032, 034, 037, 041, 055, 056, 057, 201, 203, 204, 311, 430, 432, 433, 434, 435, 436, 474, 475
Business Management	Bus Mgt	3707	BT	039, 056, 057, 201, 202, 204, 311, 430, 433, 435, 436, 474, 475
Keyboarding	Keybd	3710	BT	031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 432, 433, 434, 435, 436, 474, 475
Keyboarding/Document Layout and Design	KeyDoc Design	3727	BT	031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 432, 433, 434, 435, 436, 474, 475
Spreadsheet Applications	Spr Sheet App	3729	BT	030, 033, 037, 041, 054, 055, 056, 057, 201, 203, 204, 311, 430, 432, 434, 435, 436, 474, 475
Intergrated Input Technologies	Int Input Tech	3730	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 474, 475
Database Design/Management	Data Mgt	3735	BT	030, 037, 041, 054, 055, 056, 057, 201, 203, 204, 311, 430, 432, 434, 435, 436, 474, 475
Administrative Management	Adm Mgt	3737	BT	037, 041, 054, 055, 056, 057, 203, 204, 311, 434, 435, 436, 474, 475
Desktop Publishing	DT Pbl	3741	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 474, 475
Interactive Multimedia Presentation	Int Mul Pres	3746	BT	031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 431, 432, 433, 434, 435, 436, 474, 475
<u>HQ</u> - International Business/Marketing (1)	Int Bus Mkt	3750	BT	039, 052, 054, 056, 057, 201, 202, 204, 311, 430, 435, 436, 471, 472, 474, 475
<i>(1) International Business/Marketing satisfies one-half credit in Economics</i>				
International Business/Marketing	Int Bus Mkt	3754	BT	039, 052, 054, 056, 057, 201, 202, 204, 311, 430, 435, 436, 471, 472, 474, 475
Keyboarding/Document Formatting	KeyDocForm	3775	BT	031, 032, 037, 041, 055, 056, 057, 203, 204, 311, 432, 433, 434, 435, 436, 474, 475
Networking Essentials	Net Ess	3778	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
Computer Operating Systems and Hardware (2)	CompOper	3763	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
<i>(2) If planning to offer student certification, the teacher must have the appropriate Industry Certification.</i>				
Information Technology Foundations (3)	InfoTechFou	3764	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
<i>(3) If planning to offer student certification, the teacher must have the appropriate Industry Certification.</i>				
Accounting I	Acct I	3779	BT	030, 054, 055, 201, 203, 311, 430, 434, 435, 436, 474, 475
Accounting II	Acct II	3780	BT	030, 054, 055, 201, 203, 311, 430, 434, 435, 436, 474, 475
Career Connections	Car Con	3716	BT	031, 034, 037, 041, 054, 055, 056, 057, 201, 203, 204, 311, 430, 432, 434, 435, 436, 475, 432, 050, 450

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BT BUSINESS TECHNOLOGY EDUCATION	Abbreviation/Code		CTE	Endorsement/Employment Standards
Financial Planning	Fin Plan	3717	BT	030, 033, 039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Computer Applications	Comp App	3718	BT	037, 039, 041, 055, 057, 202, 203, 204, 311, 430, 431, 432, 434, 435, 436, 474, 475, 477
<i>HQ- American Business/Legal Systems (1)</i>	<i>BusLegSyst</i>	<i>3719</i>	<i>BT</i>	<i>035, 054, 202, 204, 311, 430, 435, 436, 474, 475</i>
<i>(1) Satisfies one-half credit in Government</i>				
American Business/Legal Systems	Amer Legal	3726	BT	035, 054, 202, 204, 311, 430, 435, 436, 474, 475
<i>HQ- Business Economics (2)</i>	<i>Bus Econ</i>	<i>3755</i>	<i>BT</i>	<i>039, 054, 201, 204, 311, 430, 435, 436, 474, 475</i>
<i>(2) Satisfies one-half credit in Economics</i>				
Business Economics	Bus Econ	3765	BT	039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Banking and Finance	Bank Fin	3756	BT	030, 033, 039, 054, 201, 204, 311, 430, 435, 436, 474, 475
Virtual Enterprise International (3)	Vir Ent Int	3757	BT	037, 039, 041, 052, 055, 056, 057, 201, 202, 203, 204, 311, 430, 434, 435, 436, 471, 472, 474, 475
<i>(3) Satisfies one half credit in Economics. This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Business consultant as well as requisite training before offering this course.</i>				
<i>HQ – Virtual Enterprise International (4)</i>	<i>Vir Ent Int</i>	<i>3762</i>	<i>BT</i>	<i>037, 039, 041, 052, 055, 056, 057, 201, 202, 203, 204, 311, 430, 434, 435, 436, 471, 472, 474, 475</i>
<i>(4) Satisfies one half credit in Economics. This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Business consultant as well as requisite training before offering this course.</i>				
Website – Foundations (4)	Web Found	3758	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475, 070, 230, 470
<i>(4) If planning to offer student certification, the teacher must have the appropriate Industry Certification.</i>				
Webpage Design – Site Designer (5)	Web Site Des	3759	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475, 070, 230, 470
<i>(5) If planning to offer student certification, the teacher must have the appropriate Industry Certification.</i>				
Webpage Design –eCommerce (6)	Web Des eCom	3760	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475, 070, 230, 470
<i>(6) If planning to offer student certification, the teacher must have the appropriate Industry Certification.</i>				
JAVA	Java Pro	3761	BT	037, 041, 055, 056, 057, 203, 204, 311, 434, 435, 436, 475
Work Based Learning/Supervision Period (7)	WB	3798	BT	Any Business Technology Endorsement
<i>(7) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
Special Course Business Technology Education	Spec Cr	(8)	BT	Any Business Technology Endorsement
<i>(8) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

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TEE -- TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code		CTE	Endorsement/Employment Standards
<i>Innovations and Inventions</i>	<i>I & I</i>	3810	<p>TEE 001, 007, 013, 014, 015, 016, 017, 067, 069, 070, 101, 105, 211, 212, 214, 230, 400, 401, 402, 407, 413, 414, 415, 416, 417, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (04 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor's degree and has completed the state-approved, five-day training prior to teaching the course, and meets the qualifications * and ** for Trade and Industrial Education. See notes below.</p> <p><i>Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480 must complete the state-approved, two day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p> <p><i>Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078 and 079). This is not a grandfathered area.</i></p> <p><i>* Trade and Industrial Education instructors who holds a Bachelor's degree and a professional occupational license (have already completed the 18 semester hour for certification) must complete the state-approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.</i></p> <p><i>** Trade and Industrial Education instructors who holds a Bachelor's degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type E, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours, and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.</i></p>

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Technological Systems	Tech Sys	3811	TEE	<p>001, 007, 013, 014, 015, 016, 017, 067, 069, 070, 101, 105, 211, 212, 214, 230, 400, 401, 402, 407, 413, 414, 415, 416, 417, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (04 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor's degree and has completed the state-approved, five-day training prior to teaching the course, and meets the qualifications * and ** for Trade and Industrial Education. See notes below.</p> <p><i>Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480 must complete the state-approved, two day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p> <p><i>Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078 and 079). This is not a grandfathered area.</i></p> <p><i>* Trade and Industrial Education instructors who holds a Bachelor's degree and a professional occupational license (have already completed the 18 semester hour for certification) must complete the state-approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.</i></p> <p><i>** Trade and Industrial Education instructors who holds a Bachelor's degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type E, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours, and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.</i></p>
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Engineering Processes	Eng Pro	3812	TEE	<p>001, 007, 013, 014, 015, 016, 017, 067, 069, 070, 101, 105, 211, 212, 214, 230, 400, 401, 402, 407, 413, 414, 415, 416, 417, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (04 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor's degree and has completed the state-approved, five-day training prior to teaching the course, and meets the qualifications * and ** for Trade and Industrial Education. See notes below.</p> <p><i>Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480 must complete the state-approved, two day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p> <p><i>Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078 and 079). This is not a grandfathered area.</i></p> <p><i>* Trade and Industrial Education instructors who holds a Bachelor's degree and a professional occupational license (have already completed the 18 semester hour for certification) must complete the state-approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.</i></p> <p><i>** Trade and Industrial Education instructors who holds a Bachelor's degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type E, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours, and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.</i></p>
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<i>Problems and Solutions in Technology</i>	<i>PST</i>	<i>3813</i>	<i>TEE</i>	<p>001, 007, 013, 014, 015, 016, 017, 067, 069, 070, 101, 105, 211, 212, 214, 230, 400,401, 402, 407, 413, 414, 415, 416, 417, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078),(044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (04 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079) OR Any T & I teacher who holds a bachelor's degree and has completed the state-approved, five-day training prior to teaching the course, and meets the qualifications * and ** for Trade and Industrial Education. See notes below.</p> <p><i>Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480 must complete the state-approved, two day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p> <p><i>Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078 and 079). This is not a grandfathered area.</i></p> <p><i>* Trade and Industrial Education instructors who holds a Bachelor's degree and a professional occupational license (have already completed the 18 semester hour for certification) must complete the state-approved, five-day training prior to teaching this course, must pass the Praxis Specialty in Technology Education (050) Examination with a minimum score of 580 prior to entering the classroom, and must pass the Praxis in Teaching and Learning prior to entering the classroom to teach this course.</i></p> <p><i>** Trade and Industrial Education instructors who holds a Bachelor's degree and an apprenticeship occupational license (are in the process of completing the 18 semester hours for certification) must complete the state-approved, five-day training prior to teaching this course, must complete the application for Alternative License Type E, must pass the Praxis Specialty in Technology Education (10050) Examination with a minimum score of 580 prior to completing their 18 hours, and must pass the Praxis in Teaching and Learning prior to completing their 18 hours to teach this course.</i></p>
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<i>Visual Communications</i>	<i>Vis Comm</i>	3814	TEE	070, 230, 470, and 477
<i>Website – Foundations (1)</i>	<i>Web Found</i>	3815	TEE	070, 230, 470, and 477
<i>(1) If planning to offer student certification, the teacher must have the appropriate Industry Certification</i>				
<i>Web Page Design – Site Designer (2)</i>	<i>Website Des</i>	3816	TEE	070, 230, 470, and 477
<i>(2) If planning to offer student certification, the teacher must have the appropriate Industry Certification</i>				
<i>Web Page Design – eCommerce (3)</i>	<i>Web Des eCom</i>	3817	TEE	070, 230, 470, and 477
<i>(3) If planning to offer student certification, the teacher must have the appropriate Industry Certification</i>				
<i>Principles of Manufacturing</i>	<i>Prin Manug</i>	3818	TEE	070, 230, 470, 477 and successful completion of related training
<i>Principles of Machining and Manufacturing</i>	<i>Prin Mac Manu</i>	3819	TEE	070, 230, 470, 477 and successful completion of related training
<i>Principles of Engineering</i>	<i>Prin Eng</i>	3820	TEE	070, 230, 470, 477 and successful completion of related training
<i>Digital Electronics</i>	<i>Dig Elect</i>	3821	TEE	070, 230, 470, 477 and successful completion of related training
<i>Manufacturing Applications</i>	<i>Manuf App</i>	3822	TEE	070, 230, 470, 477 and successful completion of related training
**Computer Aided Drafting	<i>Eng Des</i>	3823	TEE	070, 230, 470, and 477 plus American Design and Drafting Association (ADDA) certification
**Advanced Computer-Aided Drafting	<i>Comp Des</i>	3824	TEE	070, 230, 470, and 477 plus American Design and Drafting Association (ADDA) certification
Special Course – Manufacturing Cluster	<i>Sp Crs (4)</i>	3825	TEE	070, 230, 470, and 477 plus American Design and Drafting Association (ADDA) certification
** (4)Special Course – Arts and Communication Cluster	<i>Sp Crs (5)</i>	3826	TEE	070, 230, 470, and 477 plus American Design and Drafting Association (ADDA) certification
(4) Prior approval of special courses by the Division of Career and Technical Education is required.				
* Any technology engineering education instructor who teaches these courses must hold proper endorsement and have completed the related training prior to teaching these courses.				
** Any technology engineering education instructor who teaches these courses must hold proper endorsement and have successfully passed the ADDA certification test.				

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<i>Principles of Engineering (PLTW)</i>	<i>POE</i>	<i>3827</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Digital Electronics (PLTW)</i>	<i>DE</i>	<i>3828</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Introduction to Engineering Design (PLTW)</i>	<i>IED</i>	<i>3829</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Computer Integrated Manufacturing (PLTW)</i>	<i>CIM</i>	<i>3830</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Civil Engineering and Architecture (PLTW)</i>	<i>CEA</i>	<i>3831</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Aerospace Engineering (PLTW)</i>	<i>AE</i>	<i>3832</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Biotechnical Engineering (PLTW)</i>	<i>BE</i>	<i>3833</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>
<i>Engineering Design and Development (PLTW) Capstone Course</i>	<i>EDD</i>	<i>3834</i>	<i>TEE</i>	<i>any TEE instructors who hold the following endorsements (070, 230, 470, and 477) with successful completion of PLTW Training</i>

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Work Based Learning/Supervision Periods(1)	WB	3898	TEE	013, 014, 015, 016, 017, 067, 070, 101,105, 211, 212, 214, 230, 400, 402, 407, 413, 414, 415, 416, 417, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (04 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (04 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079)
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(1) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.

Instructors who teach this course must hold proper endorsement and have completed the state-approved, five-day training for the courses prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements: 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480 must complete the state-approved, two day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.

Any technology engineering education instructor who was teaching technology engineering education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach the Technology Engineering Education course listed above, (042, 043, 044, 045, 046, 047, 077, 078, 079). This is not a grandfathered area.

Prior approval of special courses by the Division of Career and Technical -Technical Education is required.

CTE -- Career and Technical Education Program Classification

Courses in **bold italic print within a double lined box** are Career and Technical Education funded courses.

TEE: TECHNOLOGY ENGINEERING EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

<i>Special Course - Tech Ed (1) and (2)</i>	<i>Spec Crs</i>	<i>(2)</i>	<i>TEE</i>	<p>013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 230, 400, 402, 407, 413, 414, 415, 416, 417, 460, 461, 470, 477, 480, (042 and 043), (042 and 044), (042 and 045), (042 and 046), (042 and 047), (042 and 077), (042 and 078), (042 and 079), (043 and 044), (043 and 045), (043 and 046), (043 and 047), (043 and 077), (043 and 078), (043 and 079), (044 and 045), (044 and 046), (044 and 047), (044 and 077), (044 and 078), (044 and 079), (045 and 046), (045 and 047), (045 and 077), (045 and 078), (045 and 079), (046 and 047), (046 and 077), (046 and 078), (046 and 079), (047 and 077), (047 and 078), (047 and 079), (077 and 078), (077 and 079), (078 and 079)</p> <p>(1) <i>Instructors who teach this course must hold proper endorsement <u>and</u> have completed the state-approved, five-day training for the courses on the preceding page prior to teaching the course. Instructors having the following endorsements must attend the training: 007, 013, 014, 015, 016, 017, 067, 069, 070, 211, 212, 214, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, 480. In addition, instructors having only endorsements 007, 013, 014, 015, 016, 017, 067, 069, 070, 105, 211, 212, 214, 413, 402, 407, 413, 414, 415, 416, 417, 460, 461, 477, and 480, must complete the state-approved, two-day facilities management/safety training prior to teaching the course. Instructors are required to attend training only one time.</i></p> <p><i>Candidates who hold a bachelor's degree and a professional occupational education license may be issued a professional license endorsed in technology education provided they: (1) complete a 5-day training in technology-engineering offered by the Department of Education (or equivalent methods course); (2) complete a one-day training in safety; (3) pass the Praxis examination; (4) pass the Praxis in Principles of Learning and Teaching; and (5) are recommended by the Division of Career and Technical Education</i></p> <p><i>Any technology education instructor who was teaching technology education in Tennessee prior to September of 1980 and each year thereafter including the current year and has at least two (2) of the following endorsements in technology education may teach any of the courses listed above. [042, 043, 044, 045, 046, 047, 077, 078, and 079] This is not a grandfathered area</i></p> <p>(2) <i>Prior approval of special courses by the Division of Career and Technical Education is required.</i></p>
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CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

A10 -- AGRICULTURAL EDUCATION

Abbreviation/Code

CTE

Endorsement/Employment Standards

The following codes are to be used when scheduling agricultural education teachers who are not on extended employment.

<i>Agricultural Business/Economics</i>	<i>Ag Bus/Ec</i>	<i>5100</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Mechanics & Maint</i>	<i>Ag Mech</i>	<i>5101</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Power & Equipment</i>	<i>Ag Power & Eq</i>	<i>5102</i>	<i>A10</i>	<i>048, 448</i>
<i>Agricultural Sales & Service</i>	<i>Ag SS</i>	<i>5103</i>	<i>A10</i>	<i>048, 448</i>
<i>Fundamentals of Agriculture</i>	<i>Fund Ag</i>	<i>5104</i>	<i>A10</i>	<i>048, 448</i>
<i>Advanced Principles of Agriculture</i>	<i>Adv Prin Ag</i>	<i>5105</i>	<i>A10</i>	<i>048, 448</i>
<i>Aquaculture</i>	<i>Aqua</i>	<i>5109</i>	<i>A10</i>	<i>048, 448</i>
<i>Crop Science</i>	<i>Crop Sci</i>	<i>5111</i>	<i>A10</i>	<i>048, 448</i>
<i>Soil and Land Management</i>	<i>Soil & Lnd Mgt</i>	<i>5112</i>	<i>A10</i>	<i>048, 448</i>
<i>Exterior/Interior Landscaping</i>	<i>Ext Int Land</i>	<i>5113</i>	<i>A10</i>	<i>048, 448</i>
<i>Floral Design</i>	<i>Flor</i>	<i>5114</i>	<i>A10</i>	<i>048, 448</i>
<i>Forestry</i>	<i>Forestry</i>	<i>5115</i>	<i>A10</i>	<i>048, 448</i>
<i>Greenhouse Management</i>	<i>Greenhouse Mgt</i>	<i>5117</i>	<i>A10</i>	<i>048, 448</i>
<i>Horse Science</i>	<i>Horse Sci</i>	<i>5118</i>	<i>A10</i>	<i>048, 448</i>
<i>Leadership Development</i>	<i>Lead Dev</i>	<i>5119</i>	<i>A10</i>	<i>048, 448</i>
<i>Nursery Production</i>	<i>Nurs Prod</i>	<i>5120</i>	<i>A10</i>	<i>048, 448</i>
<i>HQ - Agriscience (1)</i>	<i>Agrisc</i>	<i>5121</i>	<i>A10</i>	<i>(048 and 015), (048 and 016), (048 and 017), (048 and 081), (048 and 211), (048 and 212), (048 and 213), (048 and 214), (048 and 414), (048 and 415), (048 and 416), (048 and 417), (048 and 418), (048 and 449) or (448 and 015), (448 and 016), (448 and 017), (448 and 081), (448 and 211), (448 and 212), (448 and 213), (448 and 214), (448 and 414), (448 and 415), (448 and 416), (448 and 417), (448 and 418), (448 and 449)</i>
<i>(1) Teachers who teach this course must be properly endorsed and have attended the state-approved, five-day/40-hour training or pass a state-approved Methods/Methodology of Teaching Agriscience course that meets the requirements of the five-day/40 hour training. Agriscience may satisfy one credit of life science laboratory credit required for graduation.</i>				
<i>Agriscience (2)</i>	<i>Agrisc</i>	<i>5131</i>	<i>A10</i>	<i>(048 and 015), (048 and 016), (048 and 017), (048 and 081), (048 and 211), (048 and 212), (048 and 213), (048 and 214), (048 and 414), (048 and 415), (048 and 416), (048 and 417), (048 and 418), (048 and 449) or (448 and 015), (448 and 016), (448 and 017), (448 and 081), (448 and 211), (448 and 212), (448 and 213), (448 and 214), (448 and 414), (448 and 415), (448 and 416), (448 and 417), (448 and 418), (448 and 449)</i>
<i>(2) Teachers who teach this course must be properly endorsed and have attended the state-approved, five-day/40-hour training or pass a state-approved Methods/Methodology of Teaching Agriscience course that meets the requirements of the five-day/40 hour training. Agriscience may be awarded for one Career and Technical credit.</i>				

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

A10 -- AGRICULTURAL EDUCATION**Abbreviation/Code****CTE****Endorsement/Employment Standards**

The following codes are to be used when scheduling agricultural education teachers who are not on extended employment.

<i>Small Animal Care</i>	<i>Anim Care</i>	<i>5122</i>	<i>A10</i>	<i>048, 448</i>
<i>Turfgrass Management</i>	<i>Turf Mgt</i>	<i>5123</i>	<i>A10</i>	<i>048, 448</i>
<i>Wildlife Management & Recreation</i>	<i>Wild Mgt & Rc</i>	<i>5124</i>	<i>A10</i>	<i>048, 448</i>
<i>Horticulture Technologies</i>	<i>Hort Tech</i>	<i>5125</i>	<i>A10</i>	<i>048, 448</i>
<i>Principles of Veterinary Science</i>	<i>Prin Vet Sci</i>	<i>5126</i>	<i>A10</i>	<i>048, 448</i>
<i>Livestock Management</i>	<i>Live Mgt</i>	<i>5127</i>	<i>A10</i>	<i>048, 448</i>
<i>Principles of Agricultural Engineering</i>	<i>Prin Ag Eng</i>	<i>5128</i>	<i>A10</i>	<i>048, 448</i>
<i>Hydroponics</i>	<i>Hydroponics</i>	<i>5129</i>	<i>A10</i>	<i>048, 448</i>
<i>Supervised Agriculture Experience</i>	<i>Sup Exp</i>	<i>5130</i>	<i>A10</i>	<i>048, 448</i>
<i>Work Based Learning/Supervision Periods (1)</i>	<i>Co-op Supv</i>	<i>5198</i>	<i>A10</i>	<i>048, 448</i>

(1) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.

Special Course-Agricultural Ed ***Spec Crs*** (2) ***A10*** ***048, 448***

(2) Prior approval of special courses by the Division of Career and Technical Education is required.

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

A12 -- AGRICULTURAL EDUCATION

Abbreviation/Code

CTE

Endorsement/Employment Standards

The following codes are to be used when scheduling agricultural education teachers who are on extended employment.

<i>Agricultural Business/Economics</i>	<i>Ag Bus/Ec</i>	<i>5150</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Mechanics & Maint</i>	<i>Ag Mech</i>	<i>5151</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Power & Equipment</i>	<i>Ag Power & Eq</i>	<i>5152</i>	<i>A12</i>	<i>048, 448</i>
<i>Agricultural Sales & Service</i>	<i>Ag SS</i>	<i>5153</i>	<i>A12</i>	<i>048, 448</i>
<i>Fundamentals of Agriculture</i>	<i>Fund Ag</i>	<i>5154</i>	<i>A12</i>	<i>048, 448</i>
<i>Advanced Principles of Agriculture</i>	<i>Adv Prin Ag</i>	<i>5155</i>	<i>A12</i>	<i>048, 448</i>
<i>Aquaculture</i>	<i>Aqua</i>	<i>5159</i>	<i>A12</i>	<i>048, 448</i>
<i>Crop Science</i>	<i>Crop Sci</i>	<i>5161</i>	<i>A12</i>	<i>048, 448</i>
<i>Soil and Land Management</i>	<i>Soil & Lnd Mgt</i>	<i>5162</i>	<i>A12</i>	<i>048, 448</i>
<i>Exterior/Interior Landscaping</i>	<i>Ext Int Land</i>	<i>5163</i>	<i>A12</i>	<i>048, 448</i>
<i>Floral Design</i>	<i>Flor</i>	<i>5164</i>	<i>A12</i>	<i>048, 448</i>
<i>Forestry</i>	<i>Forestry</i>	<i>5165</i>	<i>A12</i>	<i>048, 448</i>
<i>Greenhouse Management</i>	<i>Greenhouse Mgt</i>	<i>5167</i>	<i>A12</i>	<i>048, 448</i>
<i>Horse Science</i>	<i>Horse Sci</i>	<i>5168</i>	<i>A12</i>	<i>048, 448</i>
<i>Leadership Development</i>	<i>Lead Dev</i>	<i>5169</i>	<i>A12</i>	<i>048, 448</i>
<i>Nursery Production</i>	<i>Nurs Prod</i>	<i>5170</i>	<i>A12</i>	<i>048, 448</i>
<i>HQ - Agriscience (1)</i>	<i>Agrisc</i>	<i>5171</i>	<i>A12</i>	<i>(048 and 015), (048 and 016), (048 and 017), (048 and 081), (048 and 211), (048 and 212), (048 and 213), (048 and 214), (048 and 414), (048 and 415), (048 and 416), (048 and 417), (048 and 418), (048 and 449) or (448 and 015), (448 and 016), (448 and 017), (448 and 081), (448 and 211), (448 and 212), (448 and 213), (448 and 214), (448 and 414), (448 and 415), (448 and 416), (448 and 417), (448 and 418), (448 and 449)</i>
<i>(1) Teachers who teach this course must be properly endorsed and have attended the state-approved, five-day/40-hour training or pass a state-approved Methods/Methodology of Teaching Agriscience course that meets the requirements of the five-day/40 hour training. Agriscience may satisfy one credit of life Science laboratory credit required for graduation.</i>				
<i>Agriscience (2)</i>	<i>Agrisc</i>	<i>5182</i>	<i>A12</i>	<i>(048 and 015), (048 and 016), (048 and 017), (048 and 081), (048 and 211), (048 and 212), (048 and 213), (048 and 214), (048 and 414), (048 and 415), (048 and 416), (048 and 417), (048 and 418), (048 and 449) or (448 and 015), (448 and 016), (448 and 017), (448 and 081), (448 and 211), (448 and 212), (448 and 213), (448 and 214), (448 and 414), (448 and 415), (448 and 416), (448 and 417), (448 and 418), (448 and 449)</i>
<i>(2) Teachers who teach this course must be properly endorsed and have attended the state-approved, five-day/40-hour training or pass a state-approved Methods/Methodology of Teaching Agriscience course that meets the requirements of the five-day/40 hour training. Agriscience may be awarded for one Career and Technical credit.</i>				

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

A12 -- AGRICULTURAL EDUCATION
Abbreviation/Code
CTE
Endorsement/Employment Standards

<i>Small Animal Care</i>	<i>Anim Care</i>	<i>5172</i>	<i>A12</i>	<i>048, 448</i>
<i>Turfgrass Management</i>	<i>Turf Mgt</i>	<i>5173</i>	<i>A12</i>	<i>048, 448</i>
<i>Wildlife Management & Recreation</i>	<i>Wild Mgt & Rc</i>	<i>5174</i>	<i>A12</i>	<i>048, 448</i>
<i>Horticulture Technologies</i>	<i>Hort Tech</i>	<i>5175</i>	<i>A12</i>	<i>048, 448</i>
<i>Principles of Veterinary Science</i>	<i>Prin Vet Sci</i>	<i>5176</i>	<i>A12</i>	<i>048, 448</i>
<i>Livestock Management</i>	<i>Live Mgt</i>	<i>5177</i>	<i>A12</i>	<i>048, 448</i>
<i>Principles of Agricultural Engineering</i>	<i>Prin Ag Eng</i>	<i>5178</i>	<i>A12</i>	<i>048, 448</i>
<i>Hydroponics</i>	<i>Hydroponics</i>	<i>5179</i>	<i>A12</i>	<i>048, 448</i>
<i>Supervised Agriculture Experience</i>	<i>Sup Exp</i>	<i>5181</i>	<i>A12</i>	<i>048, 448</i>
<i>Work Based Learning/Supervision Periods(1)WB Supv</i>		<i>5180</i>	<i>A12</i>	<i>048, 448</i>

(1) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.

Special Course Agricultural Ed ***Spec Crs*** (2) ***A12*** ***048, 448***

(2) Prior approval of special courses by the Division of Career and Technical Education is required.

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded course

TI - TRADE AND INDUSTRIAL
Abbreviation/Code
CTE
Endorsement/Employment Standards
Transportation Service Technology

<i>Career Management Success</i>	<i>Career Mgt</i>	<i>5701</i>	<i>TI</i>	<i>Any Career and Technical endorsement</i>
<i>Transportation Core</i>	<i>Trans Core</i>	<i>5702</i>	<i>TI</i>	<i>506, 507, 508, 512, 568, 579, 581</i>
<i>Aviation Maintenance I</i>	<i>Av Maint I</i>	<i>5703</i>	<i>TI</i>	<i>512, 579 and Industry Certification</i>
<i>Aviation Maintenance II</i>	<i>Av Maint II</i>	<i>5704</i>	<i>TI</i>	<i>512, 579 and Industry Certification</i>
<i>Leisure Craft/Small Engine Technology:</i>				
<i>Systems</i>	<i>LC Sm Eng</i>	<i>5705</i>	<i>TI</i>	<i>506, 508, 512, 568, 579, 581</i>
<i>Leisure Craft/Small Engine Technology:</i>				
<i>Engine Performance</i>	<i>LC:Sm En Perf</i>	<i>5706</i>	<i>TI</i>	<i>506, 508, 512, 568, 579, 581</i>
<i>Collision Repair: Non Structural</i>	<i>Coll Rep: N S</i>	<i>5707</i>	<i>TI</i>	<i>507 and Industry Certification</i>
<i>Collision Repair: Structural</i>	<i>Coll Rep: S</i>	<i>5708</i>	<i>TI</i>	<i>507 and Industry Certification</i>
<i>Collision Repair: Painting and Refinishing</i>	<i>Coll Rep: P R</i>	<i>5709</i>	<i>TI</i>	<i>507 and Industry Certification</i>
<i>Automotive: Suspension and Steering</i>	<i>Auto: S S</i>	<i>5710</i>	<i>TI</i>	<i>506, 508 and Industry Certification</i>
<i>Automotive: Engine Performance</i>	<i>Auto: Eng Perf</i>	<i>5711</i>	<i>TI</i>	<i>506, 508 and Industry Certification</i>
<i>Automotive: Brake Systems</i>	<i>Auto: Brake Sys</i>	<i>5712</i>	<i>TI</i>	<i>506, 508 and Industry Certification</i>
<i>Automotive:Electrical/Electronics System</i>	<i>Auto: Elec Sys</i>	<i>5713</i>	<i>TI</i>	<i>506, 508 and Industry Certification</i>
<i>Diesel: Preventive Maintenance</i>	<i>Diesel: Prev Maint</i>	<i>5714</i>	<i>TI</i>	<i>581 and Industry Certification</i>
<i>Diesel: Brake Systems</i>	<i>Diesel: Brake Sys</i>	<i>5715</i>	<i>TI</i>	<i>581 and Industry Certification</i>
<i>Diesel: Suspension and Steering</i>	<i>Diesel: S S</i>	<i>5716</i>	<i>TI</i>	<i>581 and Industry Certification</i>
<i>Diesel: Electrical/Electronics</i>	<i>Diesel: Elec</i>	<i>5717</i>	<i>TI</i>	<i>581 and Industry Certification</i>
<i>Diesel: Engine</i>	<i>Diesel: Eng</i>	<i>5718</i>	<i>TI</i>	<i>581 and Industry Certification</i>
<i>Introduction to Aerospace</i>	<i>Intro Aero</i>	<i>5719</i>	<i>TI</i>	<i>594 and Industry Certification</i>
<i>Theory of Flight</i>	<i>Theory Flgt</i>	<i>5720</i>	<i>TI</i>	<i>594 and Industry Certification</i>
<i>Special Course-Transportation Service Technology</i>	<i>Spec Crs</i>	<i>(1)</i>	<i>TI</i>	<i>506, 507, 508, 512, 568, 579, 581, 594 and industry certification where Indicated</i>

(1) Prior approval of special courses by the Division of Career and Technical Education is required.

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL
Abbreviation/Code
CTE
Endorsement/Employment Standards
Construction Technology
Career Management Success
Career Mgt
5701
TI
Any Career and Technical endorsement
Construction Core
Const Core
5730
TI
501, 502, 522, 523, 524, 527, 532, 553, 554, 555, 556, 567, 575, 580, 584, 585, 592, 598 and Industry Certification
Carpentry I
Car 1
5731
TI
522, 575, 580, 592 and Industry Certification
Carpentry II
Car 2
5732
TI
522, 575, 580, 592 and Industry Certification
Electrical I
Elect 1
5733
TI
501, 502, 523, 532, 567, 580, 592 and Industry Certification
Electrical II
Elect 2
5734
TI
501, 502, 523, 532, 567, 580, 592 and Industry Certification
Masonry I
Mas 1
5735
TI
524 and Industry Certification
Masonry II
Mas 2
5736
TI
524 and Industry Certification
Concrete I
Conc 1
5737
TI
524 and Industry Certification
Concrete II
Conc 2
5738
TI
524 and Industry Certification
Plumbing I
Plumb 1
5739
TI
501, 502, 527, 567, 580, 592 and Industry Certification
Plumbing II
Plumb 2
5740
TI
501, 502, 527, 567, 580, 592 and Industry Certification
***Heating, Ventilation, Air Conditioning,
and Refrigeration (HVAC/R) I***
HVAC 1
5741
TI
501, 502, 523, 532, 567, 592, 598 and Industry Certification
***Heating, Ventilation, Air Conditioning,
and Refrigeration (HVAC/R) II***
HVAC 2
5742
TI
501, 502, 523, 532, 567, 592, 598 and Industry Certification
Basic Principles of Welding
BASICPrinWld
5786
TI
***551, 552, 553, 554, 555, 556, 584 and Industry Certification
OR any other T & I endorsement plus Certified Welding
Educator Certification***
Advanced Welding Applications
Adv Weld App
5787
TI
***551, 552, 553, 554, 555, 556, 584 and Industry Certification
OR any other T & I endorsement plus Certified Welding
Educator Certification***
CTE -- Career and Technical Education Program Classification
Courses in bold italic print within a double lined box are Career and Technical Education funded courses.

TI - TRADE AND INDUSTRIAL

Abbreviation/Code

CTE

Endorsement/Employment Standards

<i>Computer Aided Drafting</i>	<i>Comp Draft</i>	<i>5788</i>	<i>TI</i>	<i>070, 230, 470, 477 plus American Design and Drafting Association (ADDA) certification OR 551, 552, 553 plus ADDA certification OR 531, 554, 555, 556, 584, 585, 595, 596 plus ADDA Certification OR any other T & I endorsement plus ADDA certification</i>
<i>Advanced Computer Aided Drafting</i>	<i>Adv Com Draft</i>	<i>5789</i>	<i>TI</i>	<i>070, 230, 470 477, plus American Design and Drafting Association (ADDA) certification OR 551, 552, 553 plus ADDA certification OR 531, 554, 555, 556, 584, 585, 595, 596 plus ADDA Certification OR any other T & I endorsement plus ADDA certification</i>
<i>Special Course - Construction Technology</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>TI</i>	<i>501, 502, 522, 523, 524, 527, 531, 532, 551, 552, 553, 554, 555 556, 567, 575, 580, 584, 585, 592, 598 OR 595, 596, plus ADDA certification</i>

(3) Prior approval of special courses by the Division of Career and Technical Education is required.

CTE - Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL
Abbreviation/Code
CTE
Endorsement/Employment Standards
Arts and Communication Cluster
Career Management Success
Career Mgt
5701
TI
Any Career and Technical endorsement
Information Technology Foundations
Info Tech
5755
TI
***311, 435, 436, 475, and Industry Certification
582, 595 and Industry Certification***
Computer Operating Systems and Hardware
Comp OP Sys
5756
TI
***311, 435, 436, 475 and Industry Certification
582, 595 and Industry Certification***
Networking
Network
5757
TI
***311, 435, 436, 475 and Industry Certification
582, 595 and Industry Certification***
Cabling Technology
Cab Tech
5758
TI
475, 501, 502, 523, 532, 537, 567, 578, 582, 595
Visual Communications
Vis Comm
5759
TI
***230, 311, 435, 436, 475, 516, 519, 520, 521, 537, 538,
543, 576, 582, 583***
Graphic Communications I
Gra Comm I
5760
TI
516, 519, 520, 521, 543, 576, 583
Graphic Communications II
Gra Comm II
5761
TI
543, 583
Digital Design and Imaging
Dig Des Imag
5762
TI
311, 435, 436, 475, 516, 519, 520, 521, 543, 583
Media Concepts
Med Conc
5763
TI
576, 597
Audio Technology I
AudioTech I
5770
TI
576, 597
Must have the Industry Certification within three years of teaching this course.
Audio Technology II
Audio Tech II
5771
TI
576, 597
Must have the Industry Certification within three years of teaching this course.
Electronic Media Production
Elec Media Pro
5764
TI
576, 597
***Electronic Media Management
And Operations***
ElecMedMgt
5765
TI
576, 597
CTE -- Career and Technical Education Program Classification
Courses in *bold italic print within a double lined box* are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL

	<u>Abbreviation/Code</u>		<u>CTE</u>	<u>Endorsement/Employment Standards</u>
<i>Web Site I - Foundations</i>	<i>Web I Found</i>	<i>5766</i>	<i>TI</i>	<i>311, 435, 436, 475, and Industry Certification OR 516, 519, 582, 583, 595 and Industry Certification</i>
<i>Web Page Design II - Site Designer</i>	<i>Web Des II</i>	<i>5767</i>	<i>TI</i>	<i>311, 435, 436, 475, and Industry Certification OR 516, 519, 582, 583, 595 and Industry Certification</i>
<i>Web Page Design III – eCommerce</i>	<i>Web Des III</i>	<i>5769</i>	<i>TI</i>	<i>311, 435, 436, 475, and Industry Certification OR OR 501, 502, 516, 519, 520, 521, 523, 537, 538, 543, 567, 576, 578 582, 583, 595 and Industry Certification</i>
<i>Special Course - Arts and Communication Cluster</i>		<i>(1)</i>	<i>TI</i>	<i>311, 435, 436, 475 and Industry Certification Or 501 OR 501, 502, 516, 519, 520, 521, 523, 537, 538, 543, 567, 576, 578, 582, 583, 595, 597 and Industry Certification</i>
<i>(1) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL	Abbreviation/Code		CTE	Endorsement/Employment Standards
<i>Manufacturing Cluster</i>				
<i>Career Management Success</i>	<i>Career Mgt</i>	<i>5701</i>	<i>TI</i>	<i>Any Career and Technical endorsement</i>
<i>Programming and Logic</i>	<i>Prog Logic</i>	<i>5780</i>	<i>TI</i>	<i>501, 502, 531, 537, 551, 552, 553, 554, 555, 556, 567, 575, 582, 584, 585, 595, 596</i>
<i>Principles of Manufacturing</i>	<i>Prin Manuf</i>	<i>5781</i>	<i>TI</i>	<i>531, 537, 551, 552, 553, 554, 555, 556, 575, 582, 584, 585, 596</i>
<i>Principles of Machining and Manufacturing</i>	<i>Prin Mc Manuf</i>	<i>5782</i>	<i>TI</i>	<i>531, 551, 552, 553, 554, 555, 556, 575, 584, 585, 596</i>
<i>Digital Electronics</i>	<i>Dig Elect</i>	<i>5783</i>	<i>TI</i>	<i>501,502,537,551,552,553,554,555, 556, 567, 582, 584, 585, 596</i>
<i>Principles of Engineering</i>	<i>Prin Eng</i>	<i>5784</i>	<i>TI</i>	<i>531, 551, 552, 553, 575, 582, 596</i>
<i>Manufacturing Applications</i>	<i>Manuf App</i>	<i>5785</i>	<i>TI</i>	<i>551,552,553,554,555, 556, 575, 582, 584, 585, 596</i>
<i>Basic Principles of Welding</i>	<i>Prin Weld</i>	<i>5786</i>	<i>TI</i>	<i>551, 552, 553, 554, 555, 556, 584 and Industry Certification or any T & I endorsement Plus Certified Welding Educator Certification</i>
<i>Advanced Welding Applications</i>	<i>Weld App</i>	<i>5787</i>	<i>TI</i>	<i>551, 552, 553, 554, 555, 556, 584 and Industry Certification or any T & I endorsement plus Certified Welding Educator Certification</i>
<i>Computer Aided Drafting</i>	<i>Comp Draft</i>	<i>5788</i>	<i>TI</i>	<i>070, 230, 470, plus American Design and Drafting Association (ADDA) certification or 551, 552, 553 plus ADDA certification or 531, 554, 555, 556, 584, 585 plus ADDA certification or any other T & I endorsement plus ADDA certification or 595, 596, plus ADDA certification</i>
<i>Advanced Computer Aided Drafting</i>	<i>Ad Comp Draft</i>	<i>5789</i>	<i>TI</i>	<i>070, 230, 470 plus American Design and Drafting Association (ADDA) certification or 551, 552, 553 plus ADDA certification or 531, 554, 555, 556, 584, 585 plus ADDA certification or any other T & I endorsement plus ADDA certification or 595, 596 plus ADDA certification</i>

CTE -- Career and Technical Education Program Classification

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TI -- TRADE AND INDUSTRIAL
Abbreviation/Code
CTE
Endorsement/Employment Standards

<i>Principles of Engineering (PLTW)</i>	<i>POE</i>	<i>5791</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Digital Electronics (PLTW)</i>	<i>DE</i>	<i>5792</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Introduction To Engineering Design (PLTW)</i>	<i>IED</i>	<i>5793</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Computer Integrated Manufacturing (PLTW)</i>	<i>CIM</i>	<i>5794</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Civil Engineering and Architecture (PLTW)</i>	<i>CEA</i>	<i>5795</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Aerospace Engineering (PLTW)</i>	<i>AE</i>	<i>5796</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Biotechnical Engineering (PLTW)</i>	<i>BE</i>	<i>5797</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>
<i>Engineering Design and Development (PLTW) Capstone Course</i>	<i>EDD</i>	<i>5798</i>	<i>TI</i>	<i>any T & I endorsement with successful completion of PLTW Training</i>

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL

Abbreviation/Code

CTE

Endorsement/Employment Standards

Special Course - Manufacturing Cluster

Special Crs

(1)

TI

***070, 230, 470, plus ADDA certification or 501, 502, 531, 537
551, 552, 553, 554, 555, 556, 567, 575, 582, 584, 585, plus ADDA
certification OR 595, 596, plus ADDA certification***

(1) Prior approval of special courses by the Division of Career and Technical Education is required.

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL
Abbreviation/Code
CTE
Endorsement/Employment Standards
Human Services

<i>Criminal Justice I</i>	<i>Crim Jus I</i>	<i>5330</i>	<i>TI</i>	<i>586, 590</i>
<i>Criminal Justice II</i>	<i>Crim Jus II</i>	<i>5331</i>	<i>TI</i>	<i>586, 590</i>
<i>Criminal Justice III</i>	<i>Crim Jus III</i>	<i>5342</i>	<i>TI</i>	<i>586, 590</i>
<i>Criminal Justice II/III (1)</i>	<i>Crim Jus II/III</i>	<i>5343</i>	<i>TI</i>	<i>586, 590</i>

(1) Use this code for classes where students in Criminal Justice II and III are scheduled in the same class period

<i>Principles of Cosmetology</i>	<i>Prin of Cos</i>	<i>5338</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>
<i>Design Principles of Cosmetology</i>	<i>Dsgn of Cos</i>	<i>5339</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>
<i>Chemistry of Cosmetology</i>	<i>Chemof Cos</i>	<i>5340</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>
<i>Cosmetology II/III (2) (3)</i>	<i>Cosmty II/III</i>	<i>5341</i>	<i>TI</i>	<i>561 Tennessee Cosmetology Instructor License</i>

(2) Use this code for classes where students in Design Principles of Cosmetology and Chemistry of Cosmetology are scheduled in the same class period.

(3) The 2007-2008 school year will be the last year this split class will be offered.

<i>Special Course - Human Services</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>TI</i>	<i>586, 590, 561</i>
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(3) Prior approval of special courses by the Division of Career and Technical Education is required.

Cooperative Education
T & I Work Based Learning

<i>Supervision Periods (4)</i>	<i>WB Supv</i>	<i>5398</i>	<i>TI</i>	<i>104 or any Occupational Endorsement, excluding endorsement 577</i>
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(4) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.

CTE -- Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

TI -- TRADE AND INDUSTRIAL

Abbreviation/Code

CTE

Endorsement/Employment Standards

Hospitality and Tourism

<i>Foundations of Hospitality Industry</i>	<i>Fond Hosp In</i>	<i>5380</i>	<i>TI</i>	<i>562, 563, 564, 566</i>
<i>Culinary Arts I</i>	<i>Cul Arts I</i>	<i>5381</i>	<i>TI</i>	<i>562, 563, 564, 566 and Industry Certification</i>
<i>Culinary Arts II</i>	<i>Cul Arts II</i>	<i>5382</i>	<i>TI</i>	<i>562, 563, 564, 566 and Industry Certification</i>
<i>Culinary Arts III</i>	<i>Cul Arts III</i>	<i>5383</i>	<i>TI</i>	<i>562, 563, 564, 566 and Industry Certification</i>
<i>Culinary Arts II/III (1)</i>	<i>Cul Arts II/III</i>	<i>5384</i>	<i>TI</i>	<i>562, 563, 564, 566 and Industry Certification</i>
<i>(1) Use this code for classes where students in levels II and III are scheduled in the same class period.</i>				
<i>Special Course - Hospitality and Tourism</i>	<i>Spec Crs</i>	<i>(2)</i>	<i>TI</i>	<i>562, 563, 564, 566</i>
<i>Special Course - T and I</i>	<i>Spec Crs</i>	<i>(3)</i>	<i>TI</i>	<i>Any Occupational Endorsement, excluding endorsement 577</i>

(2)(3) Prior approval of special courses by the Division of Career and Technical Education is required.

CTE -- Career and Technical Education Program Classification

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TI--TRADE AND INDUSTRIAL

Abbreviation/Code

CTE

Endorsement /Employment Standards

Jobs for Tennessee Graduates(1)

JTG

5371

TI

591, Any Career and Technical Endorsement

(1) Schools must be pre-approved by the Division of Career and Technical Education to offer this course.

CTE--Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

HS -- HEALTH SCIENCE EDUCATION
Abbreviation/Code
CTE
Endorsement/Employment Standards

TEACHERS WHO RECEIVE THE 577 ENDORSEMENT MUST HOLD A MEDICAL LICENSE ISSUED BY TENNESSEE HEALTH RELATED BOARDS AND HAVE ATTENDED STATE APPROVED TRAINING.

Support Services	SS	5500	HS	577
Clinical Internship(1)	C I	5501	HS	577
(1) Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour work-based learning training and Clinical Internship Training or the state-approved course equivalent <u>and</u> 16 hours of biennial Clinical Internship Training.				
Rehabilitative Therapies	RT	5503	HS	577
Health Science Education	HS	5504	HS	577
Health Infomatics	HI	5505	HS	577
Medical Therapeutics	MT	5506	HS	577
Nursing Education (2)	NE	5507	HS	577
(2) Teachers who teach this course must be properly endorsed, and per federal guidelines, be a registered nurse and have worked in a long-term health care facility for a minimum of one year, if students are certified as nurses' aides. They must also have completed two days of biennial state approved Nursing Education training <u>and</u> 16 hours of biennial Clinical Internship Training <u>and</u> the state-approved 40 hour work-based learning training and internship or the state-approved course equivalent. This course requires prior approval by the Tennessee Department of Health. If students are not certified as a nurses' aides they may complete a clinical internship. The teachers who supervise this experience must hold proper endorsement, and have completed the state-approved 40-hour work-based learning training and Clinical Internship Training or the state-approved course equivalent and 16 hours of biennial Clinical Internship Training.				
HQ Health Science Anatomy and Physiology(3)Ant/Phys		5509	HS	577
(3) This course may satisfy one of the science credits required for graduation.				
Health Science Anatomy and Physiology	Ant/Phys	5512	HS	577
Biomedical Application (4)	BA	5513	HS	577
(4) Teachers who teach this course must hold proper endorsement and completed the state-approved 16 hours of biennial training. This course may be offered for one Career and Technical credit.				
Forensic Science (5)	FS	5514	HS	577
(5) Teachers who teach this course must hold proper endorsement and completed the state-approved 16 hours of biennial training. This course may be offered for one Career and Technical credit.				
Emergency Medical Services	Em Md Serv	5510	HS	577
Diagnostic Medicine	Diag Med	5511	HS	577
Work Based Learning/Supervision Periods(5)	WB Supv	5598	HS	577
(5) The credit for Work Based Learning is awarded in the appropriate related Health Science course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.				
Special Course Health Science Education	Spec Crs	(6)	HS	577
(6) Prior approval of special courses by the Division of Career and Technical Education is required.				

CTE - Career and Technical Education Program Classification

Courses in **bold italic print within a double lined box** are Career and Technical Education funded course

FCS -- FAMILY AND CONSUMER SCIENCES EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

Adult Living	Adult Liv	5600	FCS	050, 450
Child Development	Child Dev	5601	FCS	050, 450
HQ - Consumer Economics (1)	Con Ec	5602	FCS	050, 450
(1) Consumer Economics satisfies one-half credit in economics required for graduation				
Consumer Economics	Cons Ec	5605	FCS	050, 450
Family & Consumer Sciences	Fam & Con Sc	5603	FCS	050, 450
Family and Parenting Education	Fam Par Ed	5606	FCS	050, 450
Housing & Interior Design	H & Int Des	5607	FCS	050, 450
Interpersonal Communications	Int CommI	5608	FCS	050, 450
Nutrition and Foods	Nutr Food	5609	FCS	050, 450
Textiles and Apparel	Tex & App	5612	FCS	050, 450
HQ - Nutrition Science (2)	Nutr Sci	5615	FCS	(050 and 015), (050 and 016), (050 and 211), (050 and 212), (050 and 415), (050 and 416) or (450 and 015), (450 and 016), (450 and 211), (450 and 212), (450 and 415), (450 and 416)
(2) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this code to schedule one person who is endorsed in both Home Economics/Family and Consumer Sciences and Biology or Chemistry and is not team teaching the course. This course satisfies either one credit of Life Science (if team taught with a Biology teacher) or one credit of Physical Science (if team taught with a Chemistry teacher) required for graduation.				
Nutrition Science(3) (for Vocational credit)	Nutr Sci	5617	FCS	(050 and 015), (050 and 016), (050 and 211), (050 and 212), (050 and 415), (050 and 416) or (450 and 015), (450 and 016), (450 and 211), (450 and 212), (450 and 415), (450 and 416)
(3) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this code to schedule one person who is endorsed in both Home Economics/Family and Consumer Sciences and Biology or Chemistry and is not team teaching the course.				
HQ - Nutrition Science(4)	Nutr Sci	5616	FCS	050, 450
(4) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this course code to schedule the Family and Consumer Sciences team teaching instructor. This course satisfies either one credit of Life Science (if team taught with a Biology teacher) or one credit of Physical Science (if team taught with a Chemistry teacher) required for graduation. The team teachers should be assigned to the same group of Nutrition Science students.				

CTE - Career and Technical Education Program Classification

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded course

FCS -- FAMILY AND CONSUMER SCIENCES EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

Nutrition Science(1) (for Career and Technical credit)	Nutr Sci	5618	FCS	050, 450
(1) Teachers who teach this course must hold proper endorsement <u>and</u> have attended the state-approved, five-day training. Use this course code to schedule the Family and Consumer Sciences team teaching instructor.				
Career Connections	Car Con	5620	FCS	050, 450
Teen Learning Center Director(2)	TLC Dir	5649	FCS	002, 050, 058, 403, 450, 451, 465, 497
(2) Use of this code is for those individuals who direct a secondary Teen Learning Center that must be operated in conjunction with Teen Parenting and for Early Childhood Education Careers classes. No students should be assigned to this code.				
Work Based Learning/Supervision Periods(3)	WB	5697	FCS	050. 450
(3) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.				
Special Course--Fam & Con Sc	Spec Crs	(4)	FCS	050, 450
(4) Prior approval of special courses by the Division of Career and Technical Education is required.				

CTE -- Career and Technical Education Program Classification

Courses and assignments shaded in gray are excluded from the Preliminary School Report and the courses, such as, typewriting, instrumental music and vocal music, are excluded from class size limits in accordance with T.C.A. 49-1-104.

Courses in ***bold italic print within a double lined box*** are Career and Technical Education funded courses.

FCSO -- FAMILY & CONSUMER SCIENCES OCCUPATIONAL EDUCATION Abbreviation/Code CTE Endorsement/Employment Standards

Early Childhood Education Careers I	Early Child I	5650	FCSO	(050 and 058), (050 and 451), (450 and 058), (450 and 451)
Early Childhood Education Careers II	Early Child II	5660	FCSO	(050 and 058), (050 and 451), (450 and 058), (450 and 451)
Early Childhood Education Careers III	Early Child III	5661	FCSO	(050 and 058), (050 and 451), (450 and 058), (450 and 451)
Early Childhood Education Careers II / III (1)	Early Child II/III	5662	FCSO	(050 and 058), (050 and 451), (450 and 058), (450 and 451)
<i>(1) Use this code for classes where student in levels II and III are scheduled in the same class period.</i>				
Foundations of the Hospitality Industry	Found Hosp Ind	5655	FCSO	(050 and 060), (050 and 453), (450 and 060), (450 and 453)
Culinary Arts I	Cul Arts I	5656	FCSO	(050 and 060), (050 and 453), (450 and 060), (450 and 453)
Culinary Arts II	Cul Arts II	5657	FCSO	(050 and 060), (050 and 453), (450 and 060), (450 and 453)
Culinary Arts III	Cul Arts III	5658	FCSO	(050 and 060), (050 and 453), (450 and 060), (450 and 453)
Culinary Arts II/III (2)	Cul Arts II/III	5659	FCSO	(050 and 060), (050 and 453), (450 and 060), (450 and 453)
<i>(2) Use this code for classes where students in levels II and III are scheduled in the same class period</i>				
Work Based Learning/Supervision Periods (3)	WB Supv	5698	FCSO	058, 059, 060, 061, 062, 451, 452, 453
<i>(3) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement <u>and</u> have completed the state-approved 40-hour training and internship or the state-approved course equivalent.</i>				
Special Course -- Fam & Con Sc-Occ	Spec Crs	(4)	FCSO	058, 059, 060, 061, 062, 451, 452, 453
<i>(4) Prior approval of special courses by the Division of Career and Technical Education is required.</i>				

CTE -- Career and Technical Education Program Classification

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ME -- MARKETING EDUCATION	Abbreviation/Code		CTE	Endorsement/Employment Standards
<i>HQ - Marketing & Management I - Principles</i>	<i>Market 1</i>	<i>5000</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Marketing & Management I Principles</i>	<i>Market 1</i>	<i>5030</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Marketing & Management II - Advanced Strategies</i>	<i>Market 2</i>	<i>5001</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Travel & Tourism Operations</i>	<i>Travel</i>	<i>5003</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>HQ - Services Marketing</i>	<i>Serv Mkting</i>	<i>5004</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Services-Marketing</i>	<i>Serv-Mkting</i>	<i>5034</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>HQ - Entrepreneurship</i>	<i>Entrepre</i>	<i>5005</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Entrepreneurship</i>	<i>Entrepre</i>	<i>5035</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>HQ - Financial Services Marketing</i>	<i>Finance</i>	<i>5006</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Financial Services Marketing</i>	<i>Finance</i>	<i>5036</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Technical Marketing</i>	<i>Tech Mkting</i>	<i>5011</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Exploration of Marketing & Management</i>	<i>Mkting</i>	<i>5014</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>HQ - International Business & Marketing</i>	<i>International</i>	<i>5015</i>	<i>ME</i>	<i>039, 052, 054, 056, 057, 201, 202, 204, 311, 430, 435, 436, 471, 472</i>
<i>International Business & Marketing</i>	<i>International</i>	<i>5045</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Advertising & Public Relations</i>	<i>Advertising</i>	<i>5016</i>	<i>ME</i>	<i>052, 471, 472</i>
<i>Marketing Research and Analysis</i>	<i>Market Inf</i>	<i>5017</i>	<i>ME</i>	<i>052, 471, 472</i>
CTE -- Career and Technical Education Program Classification				
Courses in <i>bold italic print within a double lined box</i> are Career and Technical Education funded courses.				

ME -- MARKETING EDUCATION**Abbreviation/Code****CTE****Endorsement/Employment Standards**

Sales Management	Sales Mgt	5018	ME	052, 471, 472
Organizational Leadership	Org Lead	5019	ME	052, 471, 472
HQ – Wholesale Logistics Operations	Wholesale	5020	ME	052, 471, 472
Wholesale Logistics Operations	Wholesale	5050	ME	052, 471, 472
HQ – Retail Operations	Retail	5022	ME	052, 471, 472
Retail Operations	Retail	5052	ME	052, 471, 472
Sports and Entertainment Marketing	Sports & Ent	5023	ME	052, 471, 472
Foundations of the Hospitality Industry	Fnd Hosp Ind	5025	ME	052, 471, 472
Lodging Operations/Hospitality Management	Hosp Manag	5026	ME	052, 471, 472

Virtual Enterprise International (1)

Vir Ent Int 5057 ME 052, 471, 472

(1) This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Marketing consultant as well as requisite training before offering this course. Course must be taught by Marketing teacher to count for the Marketing Concentration.

HQ Virtual Enterprise International (2)

Vir Ent Int 5062 ME 052, 471, 472

(2) This course is trademarked by the New York City Department of Education and has an associated fee. Prior approval must be obtained from the Marketing consultant as well as requisite training before offering this course. Course must be taught by Marketing teacher to count for the Marketing Concentration.

Work Based Learning/Supervision Periods(3)

WB 5098 ME 052, 471, 472

(3) The credit for Work Based Learning is awarded in the appropriate related Career and Technical course in which the student is enrolled. Teachers who supervise this experience must hold proper endorsement and have completed the state-approved 40-hour training and internship or the state-approved course equivalent.

Special Course – Marketing

Spec Crs (4) ME 052, 471, 472

(4) Prior approval of special courses by the Division of Career and Technical Education is required.

NOTE: Codes 5062, 5000, 5004, 5005, 5006, 5015, 5020, and 5022 meets the criteria and standards to substitute for the economics ½ credit required for graduation for both the regular and honors diplomas.

CTE -- Career and Technical Education Program Classification

Courses in **bold italic print within a double lined box** are Career and Technical Education funded courses.